

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 5

**Complete if Known**

Application Number	09/819,874
Filing Date	March 28, 2001
First Named Inventor	David J. Corisis et al.
Group Art Unit	2826
Examiner Name	K. Quinto
Attorney Docket Number	3770.3US (97-0332.3)

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
F2		US-3,932,934	01/20/1976	Lynch et al.	
		US- 4,142,286	03/06/1979	Knuth et al.	
		US- 4,528,747	07/16/1985	Hoffman et al.	
		US- 5,688,127	11/18/1997	Staab et al.	
		US- 4,722,135	02/02/1988	Read	
		US- 4,733,462	03/29/1988	Kawatani	
		US- 4,810,154	03/07/1989	Klemmer et al.	
		US- 4,940,181	07/10/1990	Juskey, Jr. et al.	
		US- 4,975,079	12/04/1990	Beaman et al.	
		US- 4,985,107	01/15/1991	Conroy et al.	
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		US- 5,051,339	09/24/1991	Friedrich et al.	
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F1		US- 5,189,507	02/23/1993	Carlomagno et al.	
		US- 5,203,075	04/20/1993	Angulas et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				

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K2		US- 5,255,431	10/26/1993	Burdick	
		US- 5,329,423	07/12/1994	Scholz	
		US- 5,337,219	08/09/1994	Carr et al.	
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		US- 5,446,960	09/05/1995	Isaacs et al.	
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		US- 5,556,293	09/17/1996	Pfaff	
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		US- 5,611,705	03/18/1997	Pfaff	

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Attorney Docket Number	3770.3US (97-0332.3)

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Attorney Docket Number	3770 31US (97-0332 3)

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
JK		PUTTLITZ et al., "C-4/CBGA Comparison with Other MLC Single Chip Package Alternatives," <u>IEEE Transactions on Components, Packaging, and Manufacturing Technology</u> , May 1995, pps. 250-256, Part B, Vol. 18, No. 2.	✓
JK		GOLDMANN, Lewis S., "Statistical Model for the Inherent Tilt of Flip-Chips," <u>Transactions of the ASME Journal of Electronic Packaging</u> , March 1996, pps. 16-20, Vol. 118.	
JK		NASIATKA et al., "Determination of Optimal Solder Volume for Precision Self-Alignment of BGA using Flip-Chip Bonding," pps. 6-9.	

Examiner  
Signature

Keith Quinto

Date  
Considered

12/3/02 &amp; 12/9/02

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